

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Devon Energy Production Company, L.P.	Contact Robert Jordan
Address 1751 Hwy 511/PO Box 6459 Navajo Dam, NM 87419	Telephone No. 505-320-1395
Facility Name NEBU 17A	Facility Type Gas Well

Surface Owner: BOR	Mineral Owner: Federal	API No. 30-039-21695
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LOCATION OF RELEASE

Unit Letter E	Section 9	Township 30N	Range 7W	Feet from the 1450	North/South Line North	Feet from the 1060	East/West Line West	County Rio Arriba
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Latitude N 36°49.832' Longitude W 107°34.837'

NATURE OF RELEASE

Type of Release Removal of BGT	Volume of Release N/A	Volume Recovered N/A
Source of Release N/A	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

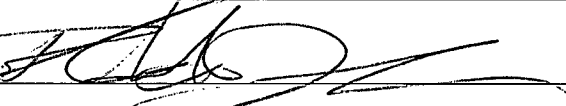
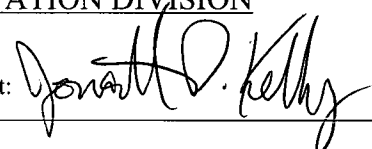
RCVD NOV 1 '12
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*

Upgrade BGT from 45 BBL to 80 BBL- soil sample results from removal of 45 BBL tank attached.

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert A. Jordan	Approved by Environmental Specialist: 	
Title: Sr. Foreman Production	Approval Date: 11/30/2012	Expiration Date:
E-mail Address: robert.jordan@dvn.com	Conditions of Approval: C-144 Modification permit required for BGT upgrade	
Date: 10/30/2012	Phone: 505-320-1395	Attached ☐

* Attach Additional Sheets If Necessary

n JK1233551675



Report Summary

Client: Devon Energy
Chain of Custody Number: 14539
Samples Received: 10-10-12
Job Number: 01058-0007
Sample Number(s): 63434-63438
Project Name/Location: NEBU 17A

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be "L. B. O.", written over a horizontal line.

Date:

10/18/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	1 North West	Date Reported:	10-15-12
Laboratory Number:	63434	Date Sampled:	10-09-12
Chain of Custody:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Analyzed:	10-15-12
Preservative:	Cool	Date Extracted:	10-12-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	15.9	10.0
o-Xylene	ND	10.0
Total BTEX	15.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	84.8 %
	1,4-difluorobenzene	96.7 %
	Bromochlorobenzene	101 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NEBU 17A

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	2 North East	Date Reported:	10-15-12
Laboratory Number:	63435	Date Sampled:	10-09-12
Chain of Custody:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Analyzed:	10-15-12
Preservative:	Cool	Date Extracted:	10-12-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	81.2 %
	1,4-difluorobenzene	98.7 %
	Bromochlorobenzene	91.4 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NEBU 17A

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	3 South West	Date Reported:	10-15-12
Laboratory Number:	63436	Date Sampled:	10-09-12
Chain of Custody:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Analyzed:	10-15-12
Preservative:	Cool	Date Extracted:	10-12-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	11.7	10.0
o-Xylene	ND	10.0
Total BTEX	11.7	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	86.7 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	94.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NEBU 17A

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	4 South East	Date Reported:	10-15-12
Laboratory Number:	63437	Date Sampled:	10-09-12
Chain of Custody:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Analyzed:	10-15-12
Preservative:	Cool	Date Extracted:	10-12-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.2 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	99.2 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NEBU 17A

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	5 Middle	Date Reported:	10-15-12
Laboratory Number:	63438	Date Sampled:	10-09-12
Chain of Custody:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Analyzed:	10-15-12
Preservative:	Cool	Date Extracted:	10-12-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	81.6 %
	1,4-difluorobenzene	95.3 %
	Bromochlorobenzene	94.2 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NEBU 17A

Client:	N/A	Project #:	N/A
Sample ID:	1015BCAL QA/QC	Date Reported:	10-15-12
Laboratory Number:	63442	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-15-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
	Accept: Range 0-15%				
Benzene	1.1641E-05	1.1739E-05	0.008	ND	0.2
Toluene	9.9320E-06	1.0040E-05	0.011	ND	0.2
Ethylbenzene	1.0577E-05	1.0815E-05	0.023	ND	0.2
p,m-Xylene	7.7780E-06	7.7998E-06	0.003	ND	0.2
o-Xylene	1.0832E-05	1.0832E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	13.1	14.0	0.069	0 - 30%	10
Toluene	24.3	24.2	0.004	0 - 30%	10
Ethylbenzene	48.7	49.3	0.012	0 - 30%	10
p,m-Xylene	86.4	87.6	0.014	0 - 30%	10
o-Xylene	34.1	35.3	0.035	0 - 30%	10

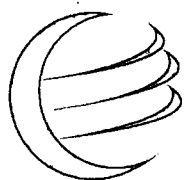
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	13.1	2500	2480	98.7	39 - 150
Toluene	24.3	2500	2490	98.6	46 - 148
Ethylbenzene	48.7	2500	2570	101	32 - 160
p,m-Xylene	86.4	5000	5150	101	46 - 148
o-Xylene	34.1	2500	2540	100	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 63434-63438 and 63442



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EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

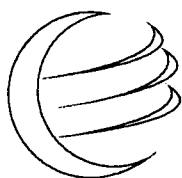
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	1 North West	Date Reported:	10-16-12
Laboratory Number:	63434	Date Sampled:	10-09-12
Chain of Custody No:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Extracted:	10-16-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	13.3	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **NEBU 17A**



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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

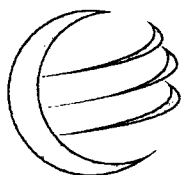
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	2 North East	Date Reported:	10-16-12
Laboratory Number:	63435	Date Sampled:	10-09-12
Chain of Custody No:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Extracted:	10-16-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	12.0	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: NEBU 17A



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EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

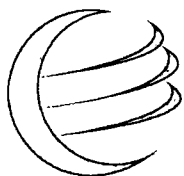
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	3 South West	Date Reported:	10-16-12
Laboratory Number:	63436	Date Sampled:	10-09-12
Chain of Custody No:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Extracted:	10-16-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	8.0	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **NEBU 17A**



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EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

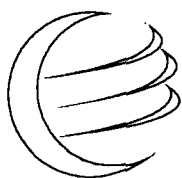
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	4 South East	Date Reported:	10-16-12
Laboratory Number:	63437	Date Sampled:	10-09-12
Chain of Custody No:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Extracted:	10-16-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	27.9	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **NEBU 17A**



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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

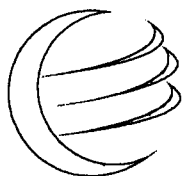
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	5 Middle	Date Reported:	10-16-12
Laboratory Number:	63438	Date Sampled:	10-09-12
Chain of Custody No:	14539	Date Received:	10-10-12
Sample Matrix:	Soil	Date Extracted:	10-16-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	93.0	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: NEBU 17A



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EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	10-16-12
Laboratory Number:	10-16-TPH.QA/QC 63438	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	10-16-12
Preservative:	N/A	Date Extracted:	10-16-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
	07-11-12	10-16-12	1,660	1,720	3.6%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	6.6

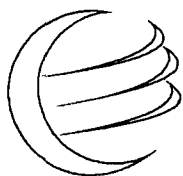
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	97.0	92.3	4.8%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	97.0	2,000	1,790	85.4%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Sample 63431-63432, 63434-63438, 63453.



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Chloride

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	1 North West	Date Reported:	10-17-12
Lab ID#:	63434	Date Sampled:	10-09-12
Sample Matrix:	Soil	Date Received:	10-10-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Chain of Custody:	14539

Parameter	Concentration (mg/Kg)
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Total Chloride

0.950

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: NEBU 17A

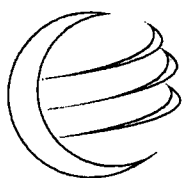
Client:	Devon Energy	Project #:	01058-0007
Sample ID:	2 North East	Date Reported:	10-17-12
Lab ID#:	63435	Date Sampled:	10-09-12
Sample Matrix:	Soil	Date Received:	10-10-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Chain of Custody:	14539

Parameter	Concentration (mg/Kg)
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Total Chloride**0.390**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **NEBU 17A**



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Chloride

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	3 South West	Date Reported:	10-17-12
Lab ID#:	63436	Date Sampled:	10-09-12
Sample Matrix:	Soil	Date Received:	10-10-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Chain of Custody:	14539

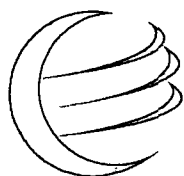
Parameter	Concentration (mg/Kg)
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Total Chloride

0.540

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **NEBU 17A**



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Chloride

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	4 South East	Date Reported:	10-17-12
Lab ID#:	63437	Date Sampled:	10-09-12
Sample Matrix:	Soil	Date Received:	10-10-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Chain of Custody:	14539

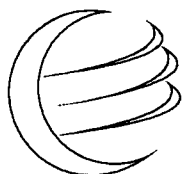
Parameter	Concentration (mg/Kg)
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Total Chloride

ND

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **NEBU 17A**



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Analytical Laboratory

Chloride

Client:	Devon Energy	Project #:	01058-0007
Sample ID:	5 Middle	Date Reported:	10-17-12
Lab ID#:	63438	Date Sampled:	10-09-12
Sample Matrix:	Soil	Date Received:	10-10-12
Preservative:	Cool	Date Analyzed:	10-16-12
Condition:	Intact	Chain of Custody:	14539

Parameter	Concentration (mg/Kg)
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Total Chloride

12.4

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **NEBU 17A**

CHAIN OF CUSTODY RECORD

14539

Client: Devon Energy			Project Name / Location: NEBU 17A			ANALYSIS / PARAMETERS													
Email results to: dauiddean.Striegel@DEV.com			Sampler Name: David Striegel			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 320-7696			Client No.: 01058-0007																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl													
1 North west	10-9-12	11:00 AM	63434	1-4oz															
2 North East	10-9-12	11:00 AM	63435	I															
3 South west	10-9-12	11:00 AM	63436																
4 South east	10-9-12	11:00 AM	63437																
5 middle	10-9-12	11:00 AM	63438																
Relinquished by: (Signature) <i>David Striegel</i>					Date 10-10-12	Time 4:30 PM	Received by: (Signature) <i>Diane Zapp</i>										Date 10/10/12	Time 4:30	
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com